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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,433	12/05/2001	Nen-Fu Huang	U 013760-3	7422
7	590 03/03/2006		EXAMINER	
Ladas & Parry 26 West 61st Street			HOANG, THAI D	
New York, NY 10023			ART UNIT	PAPER NUMBER
·			2668	
			DATE MAILED: 03/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		•	3			
	Application No.	Applicant(s)				
	10/003,433	HUANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thai D. Hoang	2668				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MORE AND A STATE OF THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	1. lely filed the mailing date of this communicatio 0 (35 U.S.C. § 133).	·			
Status						
1) Responsive to communication(s) filed on Elect	ion filed on 12/05/2005					
	action is non-final.					
, <u> </u>		secution as to the merits is	e			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) <u>9-12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	riioni consideration.					
6)⊠ Claim(s) <u>1,2,4-6 and 8</u> is/are rejected.	_					
7)⊠ Claim(s) <u>3 and 7</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
	10)⊠ The drawing(s) filed on <u>05 December 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	-	• •				
Replacement drawing sheet(s) including the correct		•	d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	ı (PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	HNguye	HANH NGUYEN PRIMARY EXAMIN	ER			
) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/05/2001.		te atent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The statement "when the corresponding time of said time-division queue is equal to the system time" recited in claim 1, lines 16-17, and claim 5, lines 13-14 is confusing. It is not clear how "the corresponding time of said time-division queue", which is a time slot, equals to the system time.

Claims 2-4 and 6-8 are rejected because they depend on rejected claims 1 and 5 respectively.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al, US Patent No. 6,504,824 B1, in view of Fan et al, US Patent No. 6,389,019 B1, hereafter referred to as Tanaka and Fan respectively.

Regarding claims 1 and 5, as best understood, Tanaka discloses an Apparatus and method for managing rate band. Tanaka teaches the apparatus perform the steps of:

the rate measurement unit 1 measures the flow rate of cells to be inputted for each connection, judges whether or not the flow rate exceeds a virtual MCR value stored in the virtual MCR storage unit 7, and if there is a connection transmitting cells at a rate exceeding the virtual MCR value, reports the information a' to an input control unit 4. The input control unit 4 inputs data cells to a memory FIFO 2 if the memory's capacity is available; col. 5, lines 41-59, col. 12, lines 12-26. Tanaka does not disclose the apparatus transmits the input packet queued in memory when the corresponding time of the time-division queue is equal to the system time of the bandwidth management device. However, Fan discloses a method and system called "Time-based scheduler architecture and method for ATM networks." Fan teaches that when the value of Current Time equals the value of Time stamp S_i of a cell in queue Q_i, the cell is eligible to be transmitted; col. 6, lines 60-64, col. 14, lines 61-62, col. 15, lines 14-17. It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt Fan method into the system disclosed by Tanaka in order to ensure quality of service.

Regarding claims 2 and 6, as best understood, Fan teaches that each of queues Q_i associates with a rate R_i , fig 1, col. 5, lines 60-61. It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt Fan method into the system disclosed by Tanaka for advantages cited above with respect to claim 1.

Regarding claims 4 and 8, as best understood, Takana discloses if the measured rate not exceed a predetermined rate, the inputted cells go to the output; col. 2, lines 1-15.

Allowable Subject Matter

Claims 3 and 7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph of the independent claims, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art with respect to the application:

US Patent No. 6,408,005 B1, Fan et al, "Dynamic rate control scheduler for ATM networks."

US Patent No. 5,793,747 A, Kline, "Event-driven cell scheduler and method for supporting multiple service categories in a communication network."

US Patent Application Publication 2004/0090974 A1, Balakrishnan et al., "Method and apparatus for bandwidth guarantee and overload protection in a network switch."

US Patent Application Publication 2002/0136230 A1, Dell et al., "Scheduler for a packet routing and switching system."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Chieh can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

HANH NGUYEN
PRIMARY EXAMINER

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